

**IN THE CLAIMS:**

Please cancel claim 1 and add new claims 2-12 as follows:

1. (Canceled)

80 2. (New) A radiating device for irradiating a cavity comprising:

a catheter;

an antenna, situated at a distal portion of the catheter, for irradiating the cavity;

a central channel adapted to provide a fluid to the cavity;

a side channel adapted to receive the fluid from the cavity;

at least one side branch, situated at a proximal portion of the catheter; and

at least one temperature sensing device, having an end, the end of the at least

one temperature sensing device extending outward from the catheter after the catheter  
is inserted into the cavity;

wherein the end of the at least one temperature sensing device is adapted to

detect a temperature of a wall of the cavity irradiated by the antenna.

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81 3. (New) The radiating device according to claim 2 wherein the at least one  
side branch provides an inlet for the fluid to enter the central channel.

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82 4. (New) The radiating device according to claim 2 wherein the at least one  
side branch provides an outlet for the fluid to exit from the side channel.

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83 ~~8~~. (New) The radiating device according to claim ~~8~~ further comprising:  
an inflatable balloon situated at the distal portion of the catheter;  
a second side channel adapted to provide a fluid used to inflate the inflatable  
balloon; and  
a one-way valve for introducing the fluid used to inflate the inflatable balloon to  
the second side channel.

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84 ~~8~~. (New) The radiating device according to claim ~~8~~ wherein the fluid used to  
inflate the inflatable balloon is a liquid.

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85 ~~8~~. (New) The radiating device according to claim ~~8~~ wherein the fluid used to  
inflate the inflatable balloon is a gas.

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86 ~~8~~. (New) The radiating device according to claim ~~8~~ wherein the fluid  
comprises a conditioning liquid.

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87 ~~8~~. (New) The radiating device according to claim ~~8~~ wherein the fluid  
comprises a solution of a selective cytotoxicity substance.

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88 ~~10~~. (New) The radiating device according to claim ~~8~~ wherein the antenna  
comprises a linear dipole antenna.

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89 ~~11~~. (New) The radiating device according to claim ~~10~~ wherein the linear  
dipole antenna comprises a coil-shaped segment.

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90 ~~12~~. (New) The radiating device according to claim ~~2~~ further comprising a  
stainless steel wire coupled to the at least one temperature sensing device.

Rule 126